SERVICE PIME PM - 45



MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound.

Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, correct part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address
- Complete part numbers and quanties required
- 3. Description of parts
- 4. Model number for which part is required
- 5. Way of shipment
- 6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

TECHNICAL ASSISTANCE

Should you require any other technical support, do not hesitate to contact the Technical Department of MARANTZ EUROPE & Co.

Avenue Louise 326 - Bte. 32 B-1050 Brussels

Belgium

Telephone: (02) 6407830 (10 I)

Telex: 26602 Fax.: (02) 649.29.20

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA HORNYPHON Vertriebsgesellschaft GmbH Newstead Wienerbergstrasse 1 A 1101 Wien Austria Telex: 132.332

AUSTRALIA MARANTZ AUSTRALIA PTY., Ltd. 19 Chard Road Brookvale, NSW 2100 Australia

Telex: 24121

BELGIUM SVD DIVISION MARANTZ Industrialaan 1 1720 Groot-Bijgaarden Belgium Telex: 24466

CHILE MARANTZ DIVISION OF PHILIPS S.A. AV. Santa Maria, 0760 Casilla 2687 Santiago Telex: 240.239

DENMARK MARANTZ **DIVISION OF PHILIPS** SERVICE A/S Prags Boulevard 80 Postbox 1919 DK-2300 København S Denmark Telex: 31201

EIRE

MARANTZ IRELAND Ltd.

Gionkeagh Dublin 4 Telex: 25200

FINI AND MARANTZ DIVISION OF OY PHILIPS Ab Kaivokatu 8 00100 Helsinki Telex: 124811

FRANCE MARANTZ FRANCE 4 Rue Bernard Palissy 92600 Asnières France Telex: 611651

GERMANY MARANTZ GERMANY GmbH Max-Planck-Strasse 22 6072 Dreieich 1 Germany

THE NETHERLANDS MARANT7 De Limiet 3

The Netherlands Telex: 47679

4131 NR Vianen

Telex: 529821

NORWAY MARANTZ

DIVISION OF PHILIPS A/S Sandstuveien 40 Oslo 6 Norway Telex: 72640

GREAT BRITAIN MARANTZ AUDIO U.K. Ltd Unit 15/16 Saxon Way Industrial Estate Moor Lane Harmondsworth UB7 OLW **Great Britain** Telex: 935196

GREECE ADAMCO S.A. P.O.Box 21025 Hippocratus Street 188 Athens 11410 Greece

Telex: 216,795

MARANTZ ITALIANA S.p.A. Via Monte Napoleone 10 20121 Milano Italia

JAPAN MARANTZ JAPAN, Inc. 35-1, 7-chome, Sagamiono Sagamihara-shi, Kanagawa KUWAIT

AL ALAMIAH ELECTRONICS Ussama Building Fahd at Saleem Street P.O.Box 23781 Safat-Kuwait Telex: 22694

SAUDI ARABIA

AL ALAMIAH ELECTRONICS P.O.Box 5954 University Street Riyadh 11432 Saudi Arabia Telex: 201530

SOUTH AFRICA MARANTZ DIVISION OF PHILIPS S.A. Rainer House Ove Street, 10 Doornfontein Johannesburg Telex: 483.456

SPAIN PHONO S.A. Ignacio Iglesias 10 Badalona (Barcelona) Spain Telex: 59355

SWEDEN MARANTZ **DIVISION OF PHILIPS** Försäljning AB Tegeluddsvägen 1 S-115 84 Stockholm Sweden Telex: 14060

SWITZERLAND DYNAVOX ELECTRONICS Route de Villars 105 1701 Fribourg Switzerland Telex: 942377

TURKEY DOGRUOL Ltd. I.M.C. 6 Blok N°631 O Unkapani Istanbul Turkey Telex: 22085

MALTA CACHIA & GALEA Republic Street, 68D Valetta Telex: 1682

U.S.A. MARANTZCOMPANY, Inc. National Service Department P.O.Box 577 Chatsworth, CA 91311

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

> In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.



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How to use this service manual

- The "Common parts" which Marantz Japan, Inc. has established are eliminated from this service manual.
- These "Common parts" are applied to all models in the service manuals arranged and issued by MJI.
- To indicate clearly the common parts in the schematic diagram, a line is drawn above or under the Ref. Desig. No. of applicable parts.
- "Common parts" can be supplied from the Marantz service center as ever.
 In case of ordering, please establish the parts number of 10 figures following the procedure mentioned in this service manual "How to establish the parts number for common parts".

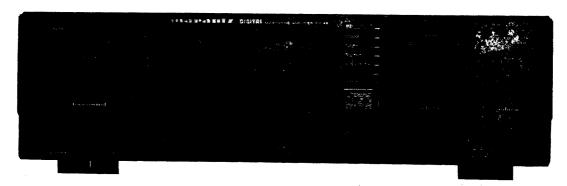
(NOTE)

When you order parts to the Marantz parts center, please take notice of the following points.

- 1) Please correctly write the parts number of 10 figures following the rule.
- 2) Since ordering parts by the Ref. Desig. No. or ratings indicated in the schematic diagram does not satisfy the above conditions, the Marantz parts supply system does not work properly.

As this case is apt to cause a trouble, please pay attention to it.

MODEL PM-45 MONITORING AMPLIFIER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model PM-45 Monitoring Amplifier.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of Model PM-45 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Tone Volumemounted on P.W. Board PE01
2. Tone Defeat Switchmounted on P.W. Board PE51
3. Balance Volumemounted on P.W. Board PG51
4. Tape Monitormounted on P.W. Board PJ01
5. Fuse/AC Outletmounted on P.W. Board PP01
6. Volume/Push Switchmounted on P.W. Board PS01
7. Phono,
Input Selectormounted on P.W. Board PV01
8. Speaker Protector
Relaymounted on P.W. Board PW01
9. Speaker Switch/
Headphonemounted on P.W. Board PW51
10. Input Selector
Displaymounted on P.W. Board PY01
11. Main Ampmounted on P.W. Board P701
12. Power Supplymounted on P.W. Board P861
13. Power Switchmounted on P.W. Board P901

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM-45 Monitoring Amplifier.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer (0~140V AC, 10A)	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

3. VOLTAGE CONVERSION

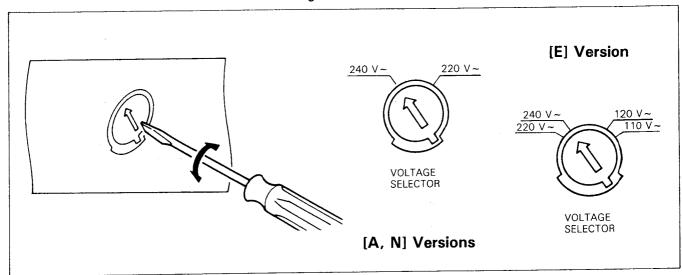
• EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION

DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart



Note on safety: Symbol Δ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol Δ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

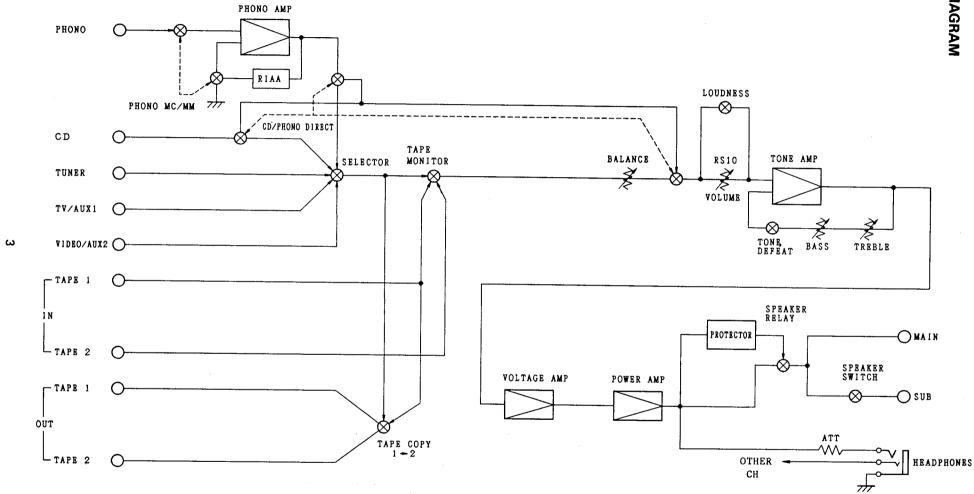
4. ADJUSTMENT PROCEDURE

Idling Adjustment

- 1. Connect DC digital voltage to test point R737 (L-CH) and R738 (R-CH) terminals.
- 2. Turn POWER SWITCH to ON, and adjust R719 (L-CH) and R720 (R-CH) to 3mV 30 sec. later, and to 6mV 1 min. later.

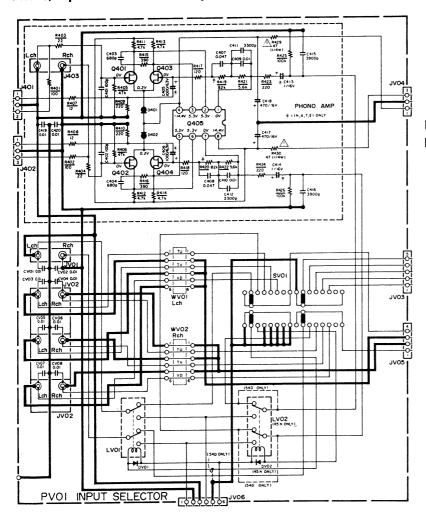
Note:

When adjusting, have output with no load, input to open, and volume on minimum.



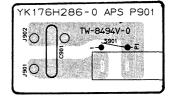
6. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

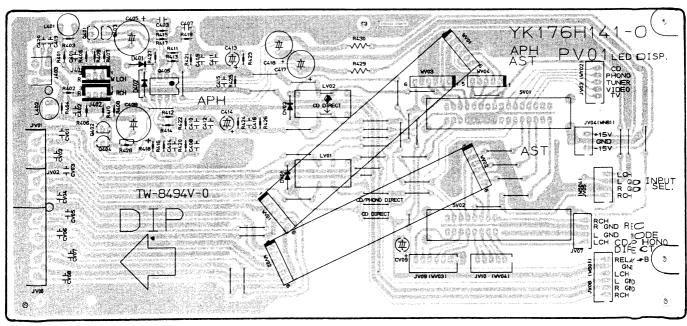




Power Switch Assembly (P901) Schematic Diagram and Component Locations

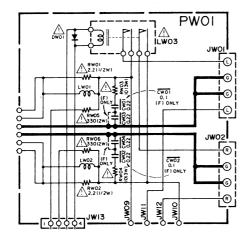


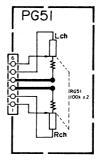




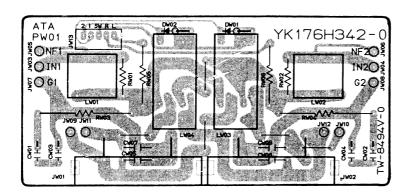
Speaker Protector Relay Assembly (PW01) Schematic Diagram and Component Locations

Balance Volume Assembly (PG51) Schematic Diagram and Component Locations

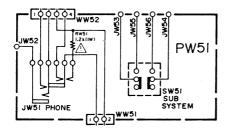


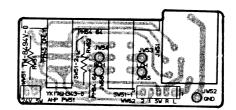




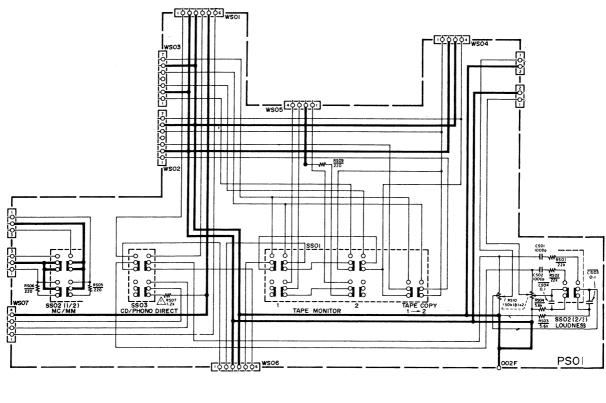


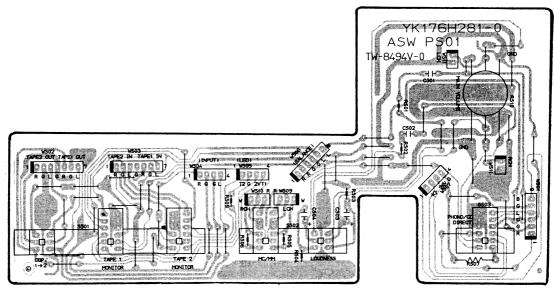
Speaker Switch/Headphone Assembly (PW51) Schematic Diagram and Component Locations





Volume/Push Switch Assembly (PS01) Schematic Diagram and Component Locations



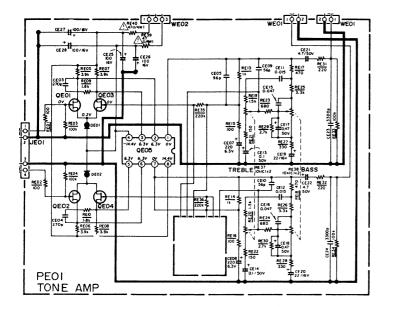


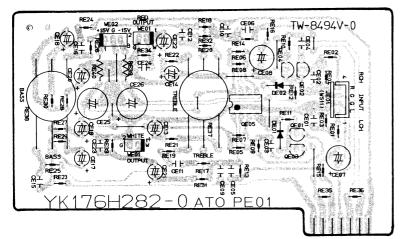
Tone Defeat Switch Assembly (PE51) Schematic Diagram and Component Locations



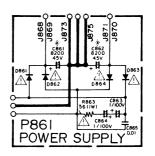


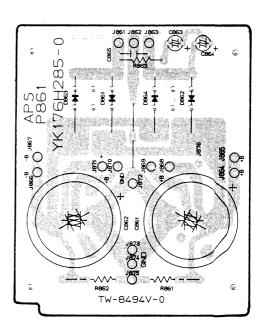
Tone Volume Assembly (PE01) Schematic Diagram and Component Locations



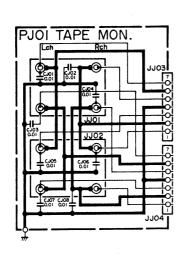


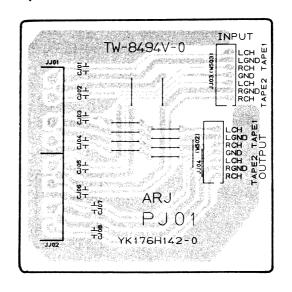
Power Supply Assembly (P861) Schematic Diagram and Component Locations



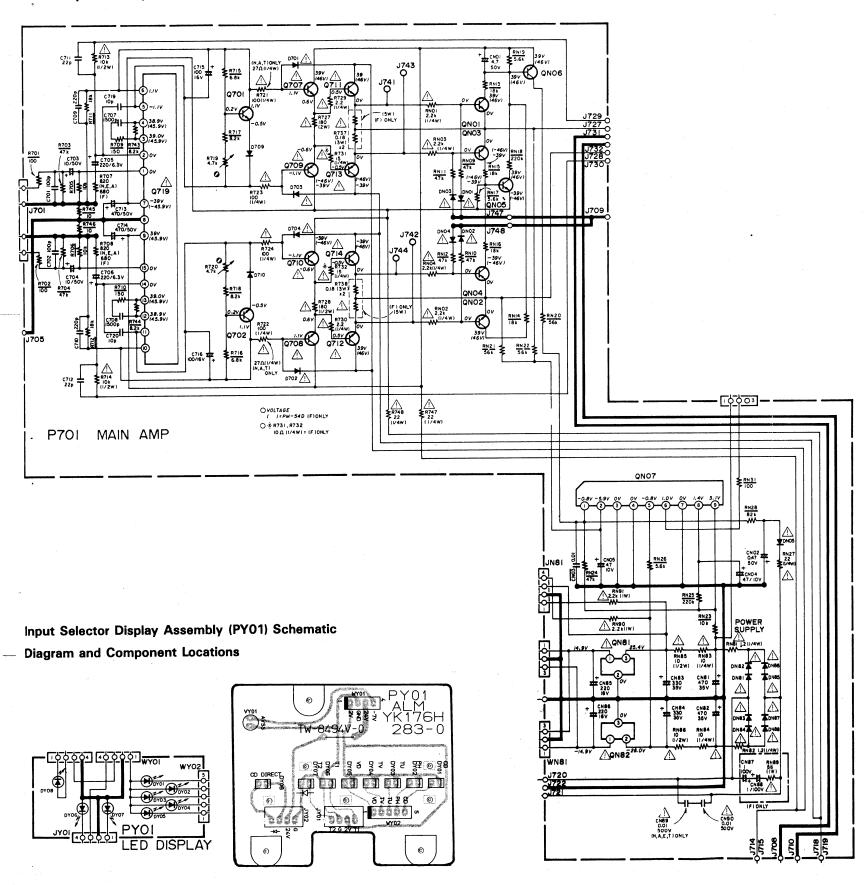


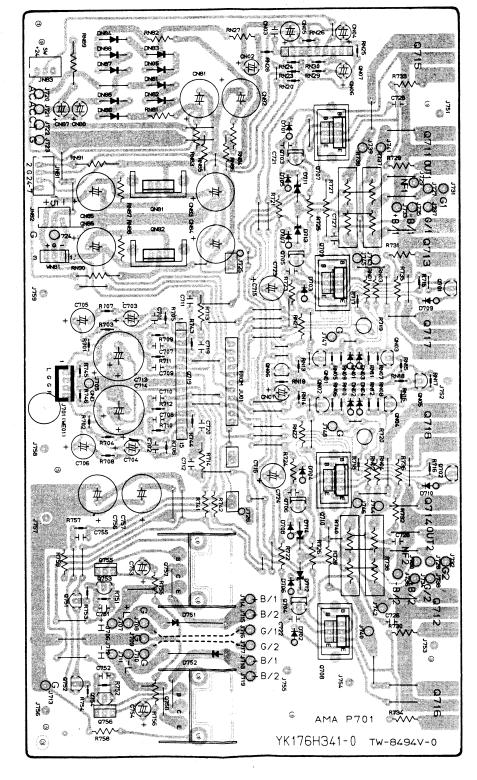
Tape Monitor Assembly (PJ01) Schematic Diagram and Component Locations



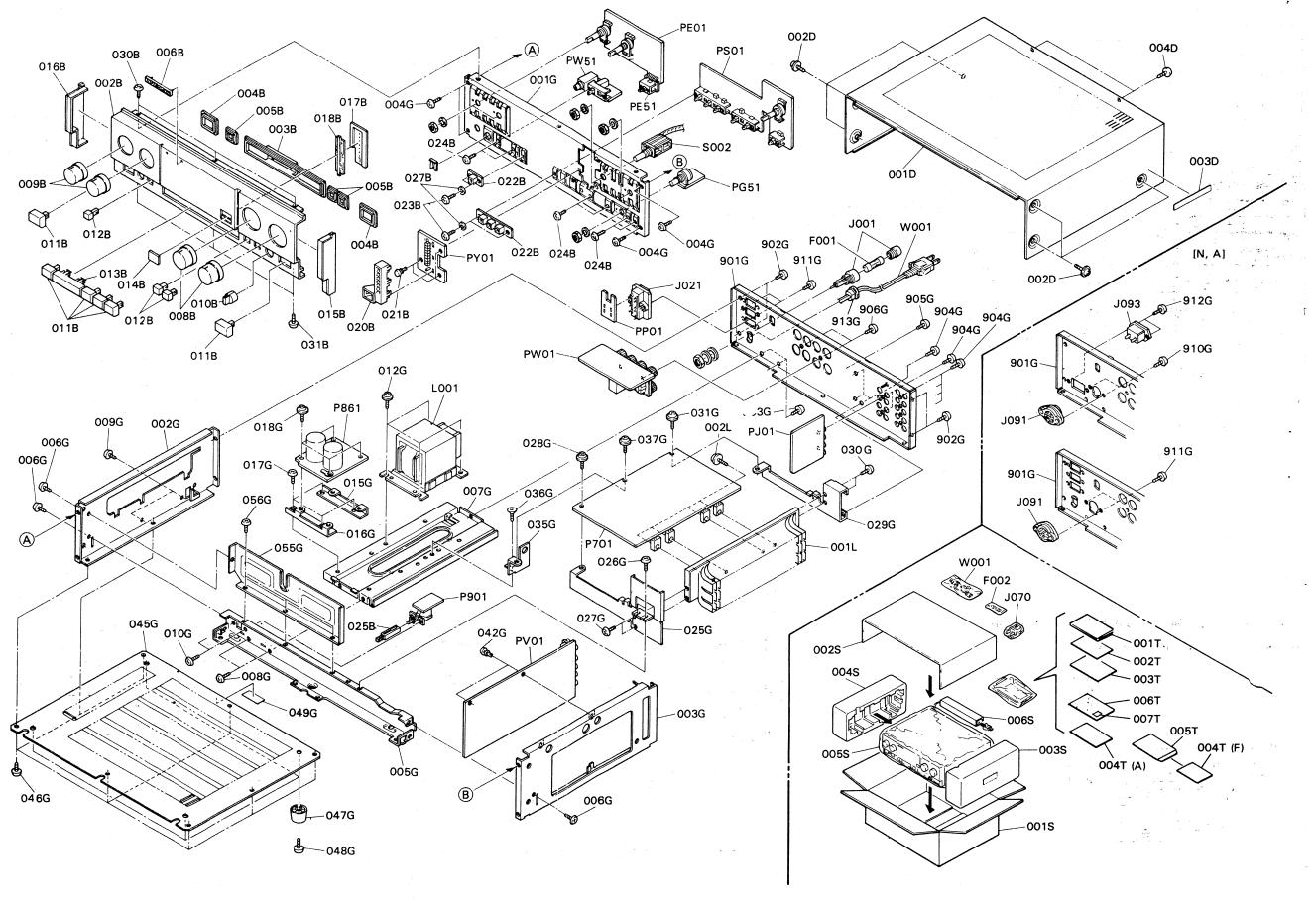


Main Amp Assembly (P701) Schematic Diagram and Component Locations





7. EXPLODED VIEW AND PARTS LIST



REF.	:		REF.		Propintion		
DESIG.	PART NO.	DESCRIPTION		DESIG.	PART NO.	DESCRIPTION	
		· · · · · · · · · · · · · · · · ·	45.	0.100	5400000040	BUT IIO	B00
Α	176H248400	Front Panel Assembly (PM-		046G	51280308M0	B.H.Tapped Screw	B3×8
	176H248410	Front Panel Assembly (PM-	540)	047G	2759057010	Leg [N,E,A]	
002B	176H248020	Front Panel (PM-45)		0490	176H057010	Leg [F]	B4×10
	176H248010	Front Panel (PM-54D)		048G	l 1	B.H.Tapped Screw	B4 X 10
003B	176H259010	Bushing, Center		049G	2911861110	Label, Caution [N,E,A]	
004B		Bushing, Power/CD Direct	.	0550	17011100010	Chi-ld	
005B		Bushing, Speaker/Phono/Lo	udness	055G		Shield	500
006B		Badge, "MARANTZ"		056G	51280308M0	B.H.Tapped Screw	B3×8
	263H113110	Stud		0010	47011050000	Danis Daniel (N. A.)	
	176H251010	Badge, "CD Direct"		901G	176H250020	Rear Panel [N,A]	
015B		Cap, Right			176H250030	Rear Panel [E]	
016B		Cap, Left		0000	176H250010	Rear Panel (F)	B3×8
017B		Window, Selector Indicator]	902G	1 1	B.H.Tapped Screw	B3×8
018B	176H151010	Introducer		903G	1 1	B.H.Tapped Screw	B3×8
				904G	1 1	B.H.Tapped Screw	B3×8
008B		Knob, Volume/Selector		905G	1	B.H.Tapped Screw	
009B		Knob, Tone Control		906G	51280308M0	B.H.Tapped Screw	B3×8
010B		Knob, Balance		0100	E1000000M0	D. H. Tannad Careur	B3×8
011B	242H270110	Button, Tone Defect/Tape	vioni-	910G	51280308M0	B.H.Tapped Screw	БЭХО
		tor/Tape Copy		0110	E1200200MO	[N,E,A]	B3×8
012B	242H270120	Button, Speaker/Phono/Lou	aness	911G	51280308M0	B.H.Tapped Screw	D3X0
				0100	E1000000M0	[E,F]	B3×8
020B	176H271010	Holder, L.E.D.		912G	51280308M0	B.H.Tapped Screw	D3X0
021B		Clamper		0100	1455050000	[N,A]	
022B	176H051010	Guide Button	DO: 0	913G	1455259090	Bushing, AC cord [E,F]	
023B		B.H.M. Screw	B3×6	2041	47011007040	Uses Cial IN C Al	
024B		B.H.M. Screw	B3×6	001L	176H267010	Heat Sink [N,E,A]	
025B		Joint, Power Switch		0001	176H267130	Heat Sink [F]	B3×12
027B	176H055010	Collar		002L	51260312M0	B.T.Screw	133 / 12
		B 1877 1.0	D2.40	A F001	CC1012E0E0	Fune 1 254 250V (N A)	
030B	51280308M0	B.H.Tapped Screw	B3×8	△ F001	FS10125850	Fuse, 1.25A 250V [N,A]	
031B	51280308M0	B.H.Tapped Screw	B3×8		FS10160850	Fuse, 1.6A 250V [E]	
		T O [N.E.A.]		A 1001	V 100000000	look Euro Holder (N.E. A.)	
001D	176H257010	Lid, Top Cover [N,E,A]		∆ J001	YJ08000290	Jack, Fuse Holder [N,E,A]	
	176H257020	Lid, Top Cover [F]		▲ J021 ▲ J053	YJ04000730	Jack, AC Outlet [E,F] Terminal, Ground	
002D		Spec. Set Screw		△ J053	YT01010150	Voltage Selector [N,A]	
003D	2911861140	Label, Caution [N,E,A]	B3×8	W 209 I	BY05030040 BY05080040	Voltage Selector [R,A]	
004D	51280308U0	B.H.Tapped Screw	83×8	№ J093	YP04000610	Plug, AC Inlet [N,A]	
	47011405040	Observation Franch		W 1093	1704000010	riug, AC iniet [N,A]	
	176H105010	Chassis, Front		∆ L001	TS17634010	Power Transformer [N,A]	
	176H105020	Chassis, Left		ZZ L001	TS17634010	Power Transformer [E]	
	176H105030	Chassis, Right	B3×8		TS18507030	Power Transformer [F]	
004G		B.H.Tapped Screw	03.0		1310307030	Tower Transformer [1]	
	176H126010	Stay, Center B.H.Tapped Screw	B3×8	5002	SR00050210	Rotary Switch	
	51280308M0 176H160010	Bracket	53 ^ 0		YC01800370	AC Power Cord [E,F]	
		B.H.Tapped Screw	B3×8	A *****	100100070	70 10 WOT 0014 (2,11)	
008G		B.H.Tapped Screw	B3×8			PACKING	
0096	51280308M0	D.II. I apped Sciew	50,70	0015	176H801010	Packing Case [N,A]	
0100	51100306M0	B.H.M. Screw	B3×6	33,3	176H801020	Packing Case [E]	
	51706009Z0	Spec. Set Screw	20,70		176H801030	Packing Case (F)	
	176H104040	Retainer		0028	176H807010	Reinforcing (E)	į
E .	176H104040	Retainer	-	0035	263H809010	Cushion (R)	
	51280308M0	B.H.Tapped Screw	B3×8	0045	263H809020	Cushion (L)	
	51260308M0	B.T.Screw	B3×8	0055	9091111030	Polyethy Sheet	l
0186	312003061010	5. F. OOI OV	557.5	0068	2864804010	Sleeve [E]	
025G	176H104080	Retainer	[1	1		į
	51280308M0	B.H.Tapped Screw	B3×8	001T	176H851310	User Manual [N,E,A]	
	51280308M0	B.H.Tapped Screw	B3×8	1	176H851110	User Manual [F]	
	51260308M0	B.T.Screw	B3×8	002T	176H851320	User Manual [N,E,A]	
	176H104090	Retainer	· · · ·	003T	176H856010	Circuit Diagram [N,E]	
5236	1,75,110,4000		1	004T	9631000090	Warranty Card [A]	į
0306	51280308M0	B.H.Tapped Screw	B3×8		9631000130	Warranty Card [F]	
	51260308M0	B.T.Screw	B3×8	005T	128T854010	Warranty Card [F]	
031G		Retainer		006T	9611000050	User's Card [F]	l
	51500308M0	F.H.Tapped Screw	F3×8	007T	9540000010	License [F]	
	51260308M0	B.T.Screw	B3×8	A 5000	FC1001E0E0	Fine 2 1EA 2EOV (E)	1
5576	312003001410	2.1.00.011	·· -	△ F002	FS10315850	Fuse, 3.15A 250V [E]	
0420	2276005050	Clamper		∆ J070	YJ04001240	Jack, AC Adapter [E]	
	268H257020	Lid, Bottom Cover	1	△ W001		AC Power Cord [N]	
	2001.237020				ZC02006030	AC Power Cord [A]	
^.,				2			~~

8. ELECTRICAL PARTS LIST

•{N]: for Europe •{E]: for Europe •{A]: for Australia •{F]: for Japan

ASSIGNMENT OF COMMON PARTS CODES

RESISTOR
$ \underline{R^{\bullet\bullet\bullet}}(1) $ GD05 \square 140, Carbon film fixed resistor, \pm 5%, 1/4W $\underline{R^{\bullet\bullet\bullet}}(2)$ GD05 \square 160, Carbon film fixed resistor, \pm 5%, 1/6W
1 - Resistance value
Examples (1) Resistance value
0.1Ω 001 100Ω 100 1kΩ 102 100kΩ 104
0.5Ω 005 18Ω 180 2.7kΩ 272 680kΩ 684 1Ω 010 100Ω 101 10kΩ 103 1MΩ 105
6.8Ω 068 390Ω 391 22kΩ 223 2.2MΩ 225
(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.
C*** : CERAMIC CAP.
(1) DD1 □ □ □ 370, Ceramic condenser
Disc type 1 ② Temp. coeff. P350 ~ N1000, 50V
Capacity value
Tolerance Examples
① Tolerance (Capacity deviation)
±0.25pF 0 ±0.5pF 1
± 5% 5
* Tolerance of COMMON PARTS handled here are as follows:
0.5pF ~ 5pF ±0.25pF 6pF ~ 10pF ±0.5pF
12pF ~ 560pF ±5%
② Capacity value
0.5pF 005 3pF 030 100pF 101 1pF 010 10pF 100 220pF 221 1.5pF 015 47pF 470 560pF 561
1.5pF 015 47pF 470 560pF 561
C*** : CERAMIC CAP.
(1) DK16□□□300, High dielectric constant ceramic condenser
① Disc type
Temp. chara. 2B4, 50V Capacity value
Examples
① Capacity value
100pF 101 1000pF 102 10000pF 103 470pF 471 2200pF 222
C***: ELECTROLY CAP. (本), FILM CAP. (土)
(1) EA BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
① One-way lead type, Tolerance ± 20%
└─ Dielectric strength
Capacity value
Examples
① Capacity value 0.1μF 104
0.33μF 334 10μF 106 330μF 337
1μF 105 22μF 226 1000μF 108
2200μF 228
② Working voltage
6.3V 006 25V 025
10V 010
(2) DF15 □ □ 350, Plastic film condenser
One-way type, Mylar ±5% 50V
Capacity value
Examples
① Capacity value
0.001 _μ F (1000pF) 102 0.015 _μ F 153
0.0018µF 182 0.1µF 104
0.01μF 103 0.56μF 564
1μF 105

47505010 47505010 47405010 47601010 47601010 47703510 33703510 32701610 22701610 10510010 10510010 10510010 10505010 10605010 10605010 122700610 22700610 22700610 22700610 22700610	P.W.Bo P.W.Bo P.W.Bo P.W.Bo P.O1-C Elect	MAIN AMP pard, Main pard Assen 4.7μF 0.47μF 47μF 470μF 470μF 330μF 220μF 220μF 1μF 1μF	Amp hbly RS 50V 50V 10V 35V 35V 35V 35V 16V 16V 100V	[F] [F] -20% [N,E,A]
47505010 47505010 47405010 47601010 47601010 47703510 37703510 33703510 22701610 10510010 10510010 18103560 55101510 10605010 10605010 10605010 102700610 22700610 15152010	P.W.Bo P.W.Bo P.W.Bo Elect	CAPACITO 4.7μF 0.47μF 470μF 470μF 470μF 330μF 330μF 220μF 1μF c 0.01μF 100pF 10μF 10μF 220μF	Amp hbly RS 50V 10V 10V 35V 35V 35V 16V 16V 100V +80%, ±5% 50V 6.3V	(F) (F)
47405010 47601010 47601010 47703510 47703510 33703510 32703510 22701610 10510010 10510010 18103560 55101510 555101510 10605010 10605010 10605010 22700610 22700610 15152010 15152010	Elect	4.7µF 0.47µF 47µF 470µF 470µF 330µF 220µF 1µF 0.01µF 100pF 100pF 10µF 10µF 220µF 220µF	50V 50V 10V 10V 35V 35V 35V 16V 100V +80%, ±5% 50V 50V 6.3V	[F]
47405010 47601010 47601010 47703510 47703510 33703510 32703510 22701610 10510010 10510010 18103560 55101510 555101510 10605010 10605010 10605010 22700610 22700610 15152010 15152010	Elect	0.47µF 47µF 470µF 470µF 330µF 220µF 220µF 1µF 100pF 100pF 10µF 10µF 220µF 220µF	50V 10V 10V 35V 35V 35V 16V 100V +80%, ±5% 50V 50V 6.3V	[F]
47601010 47601010 47703510 47703510 33703510 22701610 22701610 10510010 18103560 55101510 555101510 10605010 10605010 122700610 22700610 15152010	Elect	47µF 470µF 470µF 470µF 330µF 220µF 220µF 1µF 100pF 100pF 10µF 10µF 10µF 220µF	10V 10V 35V 35V 35V 16V 16V 100V +80%, ±5% 50V 50V 6.3V	[F]
47601010 47703510 47703510 33703510 33703510 22701610 22701610 10510010 10510010 10510010 10605010 10605010 10605010 22700610 22700610 15152010	Elect	47µF 470µF 470µF 330µF 220µF 1µF 1µF 0.01µF 100pF 10µF 10µF 10µF 220µF 220µF	35V 35V 35V 35V 16V 16V 100V +80%, ±5% 50V 50V 6.3V	[F]
47703510 33703510 33703510 22701610 22701610 10510010 18103560 55101510 10605010 10605010 10605010 22700610 22700610 15152010	Elect Elect Elect Elect Elect Elect Ceramin Film Film Elect Elect Elect Elect Filect Elect Elect Elect Film	470µF 330µF 330µF 220µF 220µF 1µF 1001µF 100pF 100pF 10µF 10µF 220µF	35V 35V 35V 16V 16V 100V +80%, ±5% 50V 50V 6.3V	[F]
33703510 33703510 22701610 22701610 10510010 18103560 55101510 55101510 10605010 10605010 22700610 22700610 15152010	Elect Elect Elect Elect Elect Ceramin Film Film Elect Elect Elect Elect Filect Elect Elect Film	330µF 330µF 220µF 220µF 1µF 1001µF 100pF 100pF 10µF 10µF 220µF	35V 35V 16V 16V 100V +80%, ±5% 50V 50V 6.3V	[F]
33703510 22701610 22701610 10510010 10510010 18103560 55101510 10605010 10605010 22700610 22700610 15152010	Elect Elect Elect Elect Ceramin Film Film Elect Elect Elect Elect Film	330µF 220µF 220µF 1µF 1 001µF 100pF 100pF 10µF 10µF 220µF	35V 16V 16V 100V +80%, ±5% ±5% 50V 50V 6.3V	[F]
22701610 22701610 10510010 10510010 18103560 55101510 10605010 10605010 22700610 22700610 15152010	Elect Elect Elect Cerami Film Film Elect Elect Elect Elect Film	220µF 220µF 1µF 1µF 0.01µF 100pF 100pF 10µF 10µF 220µF	16V 16V 100V 100V +80%, ±5% 50V 50V 6.3V	[F]
10510010 10510010 18103560 55101510 55101510 10605010 10605010 22700610 22700610 15152010	Elect Elect Elect Ceramin Film Elect Elect Elect Elect Film	220µF 1µF 1µF 0.01µF 100pF 10µF 10µF 220µF 220µF	16V 100V 100V +80%, ±5% ±5% 50V 50V 6.3V	[F]
10510010 18103560 55101510 55101510 10605010 10605010 22700610 22700610 15152010	Elect Ceramin Film Film Elect Elect Elect Elect Film	1μF c 0.01μF 100pF 100pF 10μF 10μF 220μF 220μF	100V +80%, ±5% ±5% 50V 50V 6.3V	[F]
18103560 55101510 55101510 10605010 10605010 22700610 22700610 15152010	Film Film Elect Elect Elect Elect Film	100pF 100pF 100pF 10μF 10μF 220μF 220μF	+80%, ±5% ±5% 50V 50V 6.3V	
55101510 55101510 10605010 10605010 22700610 22700610 15152010	Film Film Elect Elect Elect Elect Film	100pF 100pF 10μF 10μF 220μF 220μF	±5% ±5% 50V 50V 6.3V	-20% [N,E,A]
55101510 10605010 10605010 22700610 22700610 15152010 15152010	Film Elect Elect Elect Elect Film	100pF 10μF 10μF 220μF 220μF	±5% 50V 50V 6.3V	
10605010 10605010 22700610 22700610 15152010 15152010	Elect Elect Elect Elect Film	10μF 10μF 220μF 220μF	50V 50V 6.3V	
10605010 22700610 22700610 15152010 15152010	Elect Elect Elect Film	10μF 220μF 220μF	50V 6.3V	
22700610 15152010 15152010	Elect Elect Film	220μF 220μF	6.3V	
15152010 15152010	Film		6 31/	
15152010		1500pF		
	Film	1500pF 220pF	±5% ±5%	
55221090	Film	220pF	±5%	
			±5%	
		22pF		INTE AT
	1			[N,E,A] [F]
	Elect	470µF	50V	N,E,A]
	Elect	470μF	63V	F)
	ı	100μF		
	•			
	Mica			
DE222140			1 (4)4(
	2.2ΚΩ			
	2.2kΩ	± 5%	1/4W	
	2.2ΚΩ	±5%	1/4W	
	22Ω	±5%	1/4W	
	1.2Ω	±5%	1/4W,	lu sible
				iu sible iu sible
				iu sible
	10Ω	±5%	1/2W	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	10Ω	±5%	1/2W	ł
05560010	56Ω	±5%	1W	F]
	2.2KΩ 2.2KΩ	±5% ±5%	1W 1W	
	35220520 35220520 47705010 47706310 47706310 10701610 11100520 31100520 05222140 05222110 05222010	Mica Mica	Mica 22pF	35220520 Mica $22pF \pm 5\%$ 35220520 Mica $22pF \pm 5\%$ 47705010 Elect $470\mu F$ 50V 47706310 Elect $470\mu F$ 63V 47706310 Elect $470\mu F$ 63V 47706310 Elect $470\mu F$ 63V 47706310 Elect $470\mu F$ 63V 47706310 Elect $470\mu F$ 63V 10701610 Elect $100\mu F$ 16V 31100520 Mica $10pF \pm 0.5\%$ 31100520 Mica $30pF \pm 0.5\%$ 3

							j: tor Japan
REF. DESIG.	PART NO.	DESCRIPTION		REF. DESIG.	PART NO.	DESCRIPTION	
							C1 5 41
▲ R713	GG05103120	$10K\Omega \pm 5\%$ $1/2W$		∆ Q710	HT113582A0	Transistor 2SA1358A	[N,E,A]
▲ R714	GG05103120	$10K\Omega \pm 5\%$ 1/2W		A 0744	HT113062D0	Transistor 2SA1306A	[F]
R719	RA04720750	4.7KΩ,Trimming		₩ 0/11	HT331812A0	Transistor 2SC3181 Transistor 2SC3280	[N,E,A] [F]
		4 TKO T :		A 0712	HT332802A0 HT331812A0	Transistor 2SC3181	[N,E,A]
R720	RA04720750	4.7KΩ, Trimming		∆∆ U / 12	HT332802A0	Transistor 2SC3280	[N,E,A] [F]
 A R721	GG05101140	100Ω ±5% 1/4W		A 0712	HT112642A0	Transistor 2SA 1264	[N,E,A]
▲ R722	GG05101140	100Ω ±5% 1/4W 100Ω ±5% 1/4W		ши/13	HT113012A0	Transistor 2SA 1301	[F]
▲ R723	GG05101140 GG05101140	$100\Omega \pm 5\% 1/4W$ $100\Omega \pm 5\% 1/4W$		A 0714	HT112642A0	Transistor 2SA1264	[N.E.A]
∆ R724 Δ R727	GA05181020	$180\Omega \pm 5\% \qquad 1/4W$			HT113012A0	Transistor 2SA1301	(F)
Δ R728	GA05181020	180Ω ±5% 2W		∆ Q719		IC STK-304MARK3	[N,E,A]
Δ R729	GG05022140	$2.2\Omega \pm 5\%$ 1/4W			HC10204030	IC STK-3062MARK3	(F)
∆ R730	GG05022140	$2.2\Omega \pm 5\%$ 1/4W				P701-MISCELLANEOUS	
▲ R731	GG05150140		N,E,A}	JN81		Jack, 4P	
	GG05100140	$100 \pm 5\%$ 1/4W [F	:j		YJ06002430	Jack, 3P	
▲ R732	GG05150140		N,E,A]	JN83	YJ06002430	Jack, 3P	
	GG05100140	$100 \pm 5\%$ 1/4W [F	:j	J701	YP06003440	Plug, 4P	
∆ R 73 7	BW10000110	0.18Ω 3W [N,E,A]		WN81	YU03520260	Jumper Lead, 3P	
	BW10000080	Resistor Compo. 0.18Ω 3W [N,E,A]		001K		Heatsink	
1		Resistor Compo.		002K		Heatsink	5 0 0
▲ R738	BW10000110	0.18Ω 3W [N,E,A]		003K	1	B.H.M. Screw	B3×8
	,	Resistor Compo.	1 1	004K	51100308M0	B.H.M. Screw	B3×8
	BW10000080	0.18Ω 3W [N,E,A] Resistor Compo.				P861-POWER SUPPLY CIRC	UIT
 ∆ R74 7	GG05220140	$22\Omega \pm 5\%$ 1/4W			1	BOARD	
▲ R748	GG05220140	$22\Omega \pm 5\%$ 1/4W	1 1	P861	YK176H2850	P.W.Board, Power Supply	
		P701-SEMICONDUCTORS			ZZ176H8850	P.W.Board Assembly	
A DNO		P/01-SEMICONDUCTORS			1	P861-CAPACITORS	
∆ DNO1	HD20014010	Diode 1SS81		C861	EB82804510	Elect 8200µF 45V	[N,E,A]
	HD20014010	Diode 15501		0001	EB82805610	Elect 8200µF 56V	[F]
DN05	HD 20022030	Diode DSF10C		C862	I I	Elect 8200µF 45V	[N,E,A]
△ DN81	11020022000	Diode Doi 100			EB82805610	Elect 8200 µF 56V	[F]
~ >	HD20022030	Diode DSF10C		C863	OA10510010	Elect 1μF 100V	[F]
A DN88	IID ZOOZ ZOOO			C864	OA 10510010	Elect 1μF 100V	[F]
				C865	DK18103560	Ceramic 0.01μF 500V	[N,E,A]
⚠ D701		Di-d- 10001				P861-RESISTOR	
\ _ ` .	HD20014010	Diode 1SS81		∆ R863	GA05560010	56Ω $\pm 5\%$ 1W	[F]
△ D704		D: 180122 etc	į	™ K903	GAUSSBUUTU	5012 ± 5 % 1 VV	r. i
D709		Diode 1SS133 etc.			ļ	P861-SEMICONDUCTORS	
טוילט ן	HD 2000 2000	Diode 1SS133 etc.		A D861	HD 20030100	Diode 30D-2	
ONIO	LT222401A0	Transistor 2SC2240 (GR)			HD20030100	Diode 30D-2	
CINO1	HT322401A0 HT322401A0	Transistor 25C2240 (GR)			HD20030100	Diode 30D-2	
ONIO	HT109701A0	Transistor 2SA970 (GR)		△ D864		DiOde 30D-2	
ONINA	HT109701A0	Transistor 2SA970 (GR)		'			
	HT322401A0	Transistor 2SC2240 (GR)	[]			P901-POWER SWITCH CIRC	CUIT
	HT109701A0	Transistor 2SA970 (GR)				BOARD	
	HC10042050	IC TA7317P		P901	YK176H2860	P.W.Board, Power Switch	
4:107	11010012000		[]		ZZ176H8860	P.W.Board Assembly	
△ QN81	HC38515090	IC NJM78M15A					
	HC39515090	IC NJM79M15A	İ	⚠ C901	DK18103840	Ceramic 0.01μF 250V	[N,E,A]
1			l		DK18103850	Ceramic 0.01 _µ F 250V	[F]
Q701	HT318151C0	Transistor 2SC1815 (GRN)	I				
Q702	HT318151C0	Transistor 2SC1815 (GRN)		S901	SP01011100	Push Switch, Power	
▲ Q70 7	HT334212A0		N,E,A]			BEGA TONE VOLUME OIDS	T DO ADD
	HT332982D0		=]	n=04	\\\\ 4.70\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PEO1-TONE VOLUME CIRC	U I BUARD
▲ Q708	HT334212A0		N,E,A]	PE01	YK176H2820	P.W.Board, Tone Volume	
	HT332982D0		E)		ZZ176H8820	P.W.Board Assembly	
▲ Q7 09			N,E,A]	ł	{	PE01-CAPACITORS	
1	HT113062D0	Transistor 2SA1306A [F	=)	CE03	DF55271510	Film 270pF ±5%	
				CE04	1	Film 270pF ±5%	
1				CE05		Mica 56pF ±5%	
1				CE06		Mica 56pF ±5%	
1				CE07		Elect 220µF 6.3V	
	1			CE08	1 1	Elect 220µF 6.3V	
				CE09		Mica 39pF	
			Ì				

REF. DESIG.	PART NO.	DESCRIPTION
CE10	DF35390520	Mica 39pF
CE14 CE15 CE16	OF15153010 OF15153010 OA10405010 OA10405010 OF15473010 OF15473010 OA47405010 OA47405010 OA22601610 OA22601610	Film $0.015\mu\text{F} \pm 5\%$ Film $0.015\mu\text{F} \pm 5\%$ Elect $0.1\mu\text{F} 50\text{V}$ Elect $0.1\mu\text{F} 50\text{V}$ Film $0.047\mu\text{F} \pm 5\%$ Film $0.047\mu\text{F} \pm 5\%$ Elect $0.47\mu\text{F} 50\text{V}$ Elect $0.47\mu\text{F} 50\text{V}$ Elect $22\mu\text{F} 16\text{V}$ Elect $22\mu\text{F} 16\text{V}$ Elect $22\mu\text{F} 16\text{V}$
CE21 CE22 CE23 CE24 CE25 CE26	OA47505010 OA47505010 OF15332010 OF15332010 OA22701610 OA22701610	Elect $4.7\mu\text{F}$ 50V Elect $4.7\mu\text{F}$ 50V Film $0.0033\mu\text{F}$ $\pm 5\%$ Film $0.0033\mu\text{F}$ $\pm 5\%$ Elect $220\mu\text{F}$ 16V Elect $220\mu\text{F}$ 16V
⚠ RE39	RM01030310 RM01030310 NF02470140 NF02470149	PE01-RESISTORS $10K\Omega$ Variable $10K\Omega$ Variable 47Ω $1/4W$ Fusible 47Ω $1/4W$ Fusible
DE01 DE02	HD60001160 HD60001160	PE01-SEMICONDUCTORS C.R.Diode E-452 C.R.Diode E-452
QE03 QE04	HF203691B0 HF203691B0 HF203691B0 HF203691B0 HC10026090	F.E.T. 2SK369 (BL) F.E.T. 2SK369 (BL) F.E.T. 2SK369 (BL) F.E.T. 2SK369 (BL) IC NJM2041DD
4	YP06003440 YB00280360 YU03360260	PE01-MISCELLANEOUS Plug, 4P Connective Cord, 4P Jumper Lead, 3P
PE51	YK176H2880 ZZ176H8880	PE51-TONE DEFEAT SWITCH CIRCUIT BOARD P.W.Board, Tone Defeat Switch P.W.Board Assembly
SE51	SP02011420	Push Switch; Tone Defeat
PG51	YK176H2840 ZZ176H8840	PG51-BALANCE VOLUME CIRCUIT BOARD P.W.Board, Balance Volume P.W.Board Assembly
RG51	RM01040890	100KΩ, Variable
PJ01	YK176H1420 ZZ176H1420	PJ01-TAPE MONITOR CIRCUIT BOARD P.W.Board, Tape Monitor P.W.Board Assembly
CJ01 CJ02 CJ03 CJ04 CJ05 CJ06 CJ07 CJ08	DK18103310 DK18103310 DK18103310 DK18103310 DK18103310 DK18103310 DK18103310 DK18103310	$\begin{array}{lll} \textbf{PJO1-CAPACITIRS} \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \textbf{Ceramic} & 0.01 \mu F & + 80 \%, - 20 \% \\ \end{array}$

		•[F]: for Japan				
REF. DESIG.	PART NO.	DESCRIPTION				
JJ01 JJ02 JJ03 JJ04	YT02040690 YT02040690 YJ06002460 YJ06002460	PJ01-MISCELLANEOUS Terminal, 4P Terminal, 4P Jack, 7P Jack, 7P				
PP01	YK176H2870	PP01-FUSE / AC OUTLET CIRCUIT BOARD (PM-54D ONLY) P.W.Board, Fuse/AC Outlet				
▲ FP01 JP01 JP02 JP03	FS10400600 YJ08003900 YJ08003900 YP06003400	Fuse, 4A 250V Jack, Fuse Clip Jack, Fuse Clip Plug, 2P				
PS01	YK176H2810 ZZ176H8810	PS01-VOLUME/PUSH SWITCH CIRCUIT BOARD P.W.Board, Volume/Push Switch P.W.Board Assembly				
CS01 CS02	OF15102010 OF15102010	PS01-CAPACITORS Film 0.001μF $\pm 5\%$ Film 0.001μF $\pm 5\%$				
Δ RS07 RS10	GA05122010 RM05031250	PS01-RESISTORS 1.2KΩ 1W 50KΩ, Variable				
SS01 SS02 SS03	SP04030360 SP04020500 SP04010520	PS01-MISCELLANEOUS Push Switch; Tape Monitor 1/2 Push Switch; Phono MC/MM Push Switch; CD Direct				
WS02 WS03 WS04 WS05 WS06 WS07 WS09 WS10	YU06140260 YU07380260 YU07360260 YU04180260 YU04080260 YU06120260 YU04120260 YB00370060 YB00370070 YB00320260	Jumper Lead, 6P Jumper Lead, 7P Jumper Lead, 7P Jumper Lead, 4P Jumper Lead, 4P Jumper Lead, 6P Jumper Lead, 4P Connective Cord, 3P Connective Cord, 4P				
PV01	YK176H1410 ZZ176H1410	PV01-PHONO, INPUT SELECTOR CIRCUIT BOARD P.W.Board, Phono,input Selector P.W.Board Assembly				
CV01 { CV08	DK18103310	PV01-CAPACITORS Ceramic 0.01μF +80%, -20%				
C401 C402 C403 C404 C405 C406 C407 C408 C409 C410	DF55101510 DF555101510 DF55681510 DF55681510 OA10800610 OA22800610 OA10800610 OA22800610 OF15473010 OF15473010 OF15103010	Film 100pF $\pm 5\%$ Film 100pF $\pm 5\%$ Film 680pF $\pm 5\%$ Film 680pF $\pm 5\%$ Elect 1000μF 6.3V N, E,A] Elect 2200μF 6.3V F] Elect 1000μF 6.3V N, E,A] Elect 2200μF 6.3V F] Film 0.047μF $\pm 5\%$ Film 0.047μF $\pm 5\%$ Film 0.01μF $\pm 5\%$ Film 0.01μF $\pm 5\%$				
C411 C412	OF15332010 OF15332010	Film 3300pF ±5% Film 3300pF ±5%				

REF. DESIG.	PART NO.	DESCRIPTION
C413	OA 10505010	Elect 1µF 50V [N,E,A]
04.0	OA10601610	- 401 (5)
C414	•	Elect 10μ+ 16V [r] Elect 1μF 50V [N,E,A] Elect 10μF 16V [F]
C415	OA 10601610 OF 15392010	Elect $10\mu\text{F}$ 16V [F] Film 3900pF $\pm 5\%$
	OF15392010	Film 3900pF ±5%
C417	OA47701610	Elect 470μF 16V
	OA47701610 DK18103310	Elect 470μF 16V Ceramic 0.01μF
C419		Ceramic 0.01μF
		PV01-RESISTORS
▲ R429	NF02470140	47Ω 1/4W, Fusible
▲ R43 0	NF02470140	47Ω 1/4W, Fusible
		PV01-SEMICONDUCTORS
	HD20001000	Diode 1S1555 etc. Diode 1S1555 etc. [N.E.A]
	HD20001000 HD60001160	C.R.Diode E-452
D402		C.R.Diode E-452
Q401	HF203691B0	F.E.T. 2SK369 (BL)
	HF203691B0	F.E.T. 2SK369 (BL)
	HF203691B0	F.E.T. 2SK369 (BL) F.E.T. 2SK369 (BL)
1	HF203691B0 HC10026090	IC NJM2041DD
		PV01-MISCELLANEOUS
J401	YP06003330	Plug, 3P
J402	:::::::::::::::::::::::::::::::::::::	Plug, 3P
J403	l	Terminal, 2P
JV01 JV02		Terminal, 2P Terminal, 6P
JV03		Jack, 5P
	YJ06002430	Jack, 3P
	YJ06002440 YJ06002450	Jack, 4P Jack, 6P
LVO1	LY20240230 LY20240230	Relay Relay [N,E,A]
SV01	SS04060020	Slide Switch
	YU06140260	Jumper Lead, 6P
WV02	YU06140260	Jumper Lead, 6P
		PW01-SPEAKER PROTECTOR RELAY
PW/01	YK176H3420	CIRCUIT BOARD P.W.Board, Speaker Protector Relay
'***	ZZ176H8420	P.W.Board Assembly
İ		PW01-CAPACITORS
	OF15104010	Film 0.1μ F $\pm 5\%$ [F]
CW02	OF15104010	Film $0.1\mu\text{F} \pm 5\%$ [F]
1.		PW01-RESISTORS
	GG05022120	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	GG05022120 GA05100030	2.2Ω ±5% 1/2W 10Ω ±5% 3W
▲ RW 04	GA05100030	10Ω ±5% 3W
⚠ RW 05	GA05331020	330Ω ±5% 2W
A HW 06	GA05331020	330Ω ±5% 2W
A DIAGO	HD 20002000	PW01-SEMICONDUCTOR Diode 1SS133, etc.
A DW01	HD20002000	·
	VT04046316	PW01-MISCELLANEOUS
	YT01040310 YT01040320	Terminal, 4P Terminal, 4P
	YJ07001090	Jack, 4P
		1

REF. DESIG.	PART NO.	DESCRIPTION
LW02	LL23905120 LL23905120 LY20240260	Choke Coil; Speaker Choke Coil; Speaker Relay, Speaker Protector
PW51	YK176H3440 ZZ176H8440	PW51-SPEAKER SWITCH/HEAD- PHONE CIRCUIT BOARD P.W.Board, Speaker Switch/Headphone P.W.Board Assembly
JW51 SW51 WW51	GA05122010 YJ01002520 SP02011410 YU02320260 YU04360260	1.2KΩ ±5% 1W Jack; Headphone Push Switch, Speaker Jumper Lead, 2P Jumper Lead, 4P
PY01	YK176H2830 ZZ176H8830	PY01-INPUT SELECTOR DISPLAY CIRCUIT BORD P.W.Board, Input Selector Display P.W.Board Assembly
DY02 DY03 DY04 DY05 DY06 DY07		PY01-SEMICONDUCTORS L.E.D. GL9HD4; CD L.E.D. GL9HD4; Phono L.E.D. GL9HD4; Tuner L.E.D. GL9HD4; Television L.E.D. GL9HD4; Video L.E.D. GL9HD4; Tape-1 L.E.D. GL9HD4; Tape-2 L.E.D. SLP281F-50U; CD Direct
JY01 JY02	YJ07001090 YJ06002440	PY01-MISCELLANEOUS Jack, 4P Jack, 4P
WY01	YU04400260	Jumper Lead, 4P

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY:

Symbol Δ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol $\, \underline{\wedge} \,$. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

9. TECHNICAL SPECIFICATIONS (DIN)

Dimensions

Weight

AUDIO SECTION IHF Dynamic Power '4 ohms 88W Power Output per Channel Total Harmonic Distortion at RMS 8 ohms 0.02% MM CARTRIDGE INPUT Equivalent Input Noise (A weighted) 0.25µV MC CARTRIDGE INPUT **CD-TUNER-TAPE INPUT OUTPUT VOLTAGE OUTPUT IMPEDANCE GENERAL** Power Consumption at Rated Output, both Channels Operating 184W

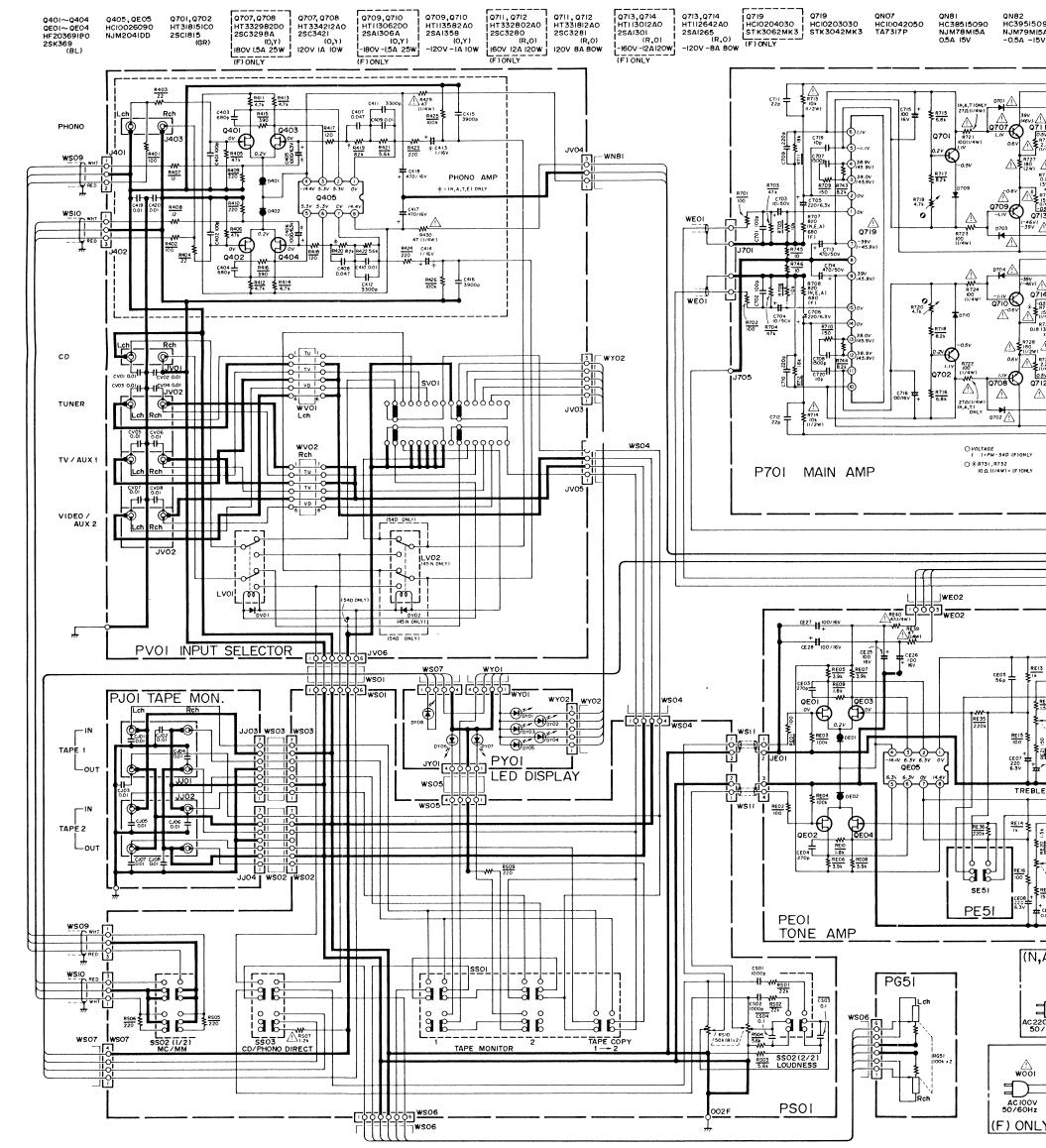
 Panel Width
 416 mm

 Panel Height
 118 mm

 Depth
 334 mm

Unit Alone 8.6 kg

10. SCHEMATIC DIAGRAM



"SERVICE INFORMATION IS FOR USE BY QUALIFIED RERSONNEL ONLY — ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY REPAIR BY ANY MARANTZ SERVICE CENTRE —"

Kind of Common Parts

R	ES	IST	OF	1

 $R^{\star\star\star}$ (1) GD05 - - - 140, Carbon film fixed resistor, ±5% 1/4W

R*** (2) GD05 --- 160, Carbon film fixed resistor, ±5% 1/6W

C*** : CERAMIC CAP.

(1) DD1 ---- 370, Ceramic condenser,

disc type (titan condenser)

Temp. coeff. P350 \sim N1000 50V

C*** : CERAMIC CAP.

(1) DK16 --- 300, High dielectric constant ceramic condenser,

disc type (titan variable) Temp. chara. 2B4 50V

C***	:	ELECTROLY	CAP. (本)	/ FILM CAP.	(#)
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(1) EA · · · · · 10, Electrolytic condenser,

one-way lead type, tolerance ±20%

(2) DF15 --- 350, Plastic film condenser,

one-way type, Mylar, ±5% 50V

^{*} In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES"

F001	FS101608
L001	TS176340
L001	TS176340
S002	SR000502
RE37	RM010303
RE38	RM010303

SP0201142

RM010408

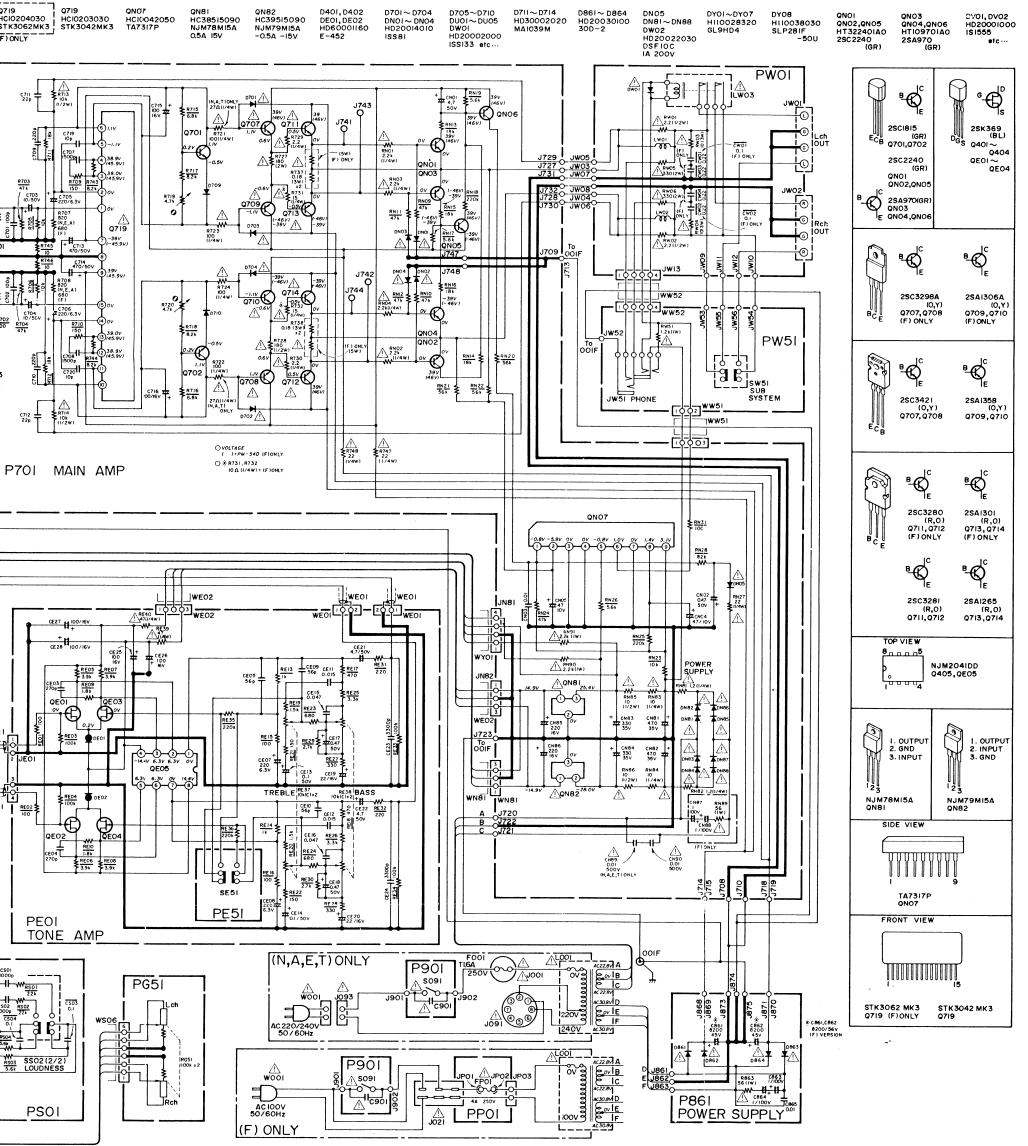
RM050312

SE51

RG51

RS10

Model PM-45



NOTE ON SAFETY:

Symbol \triangle Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol \triangle . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

I CAP. (⇌)	F001	FS10160850	FUSE 1.6A	SS01	SP04030360	PUSH SWITCH TAPE MONITOR
denser,	L001	TS17634010	POWER TRANSF. [N.A]	SS02	SP04020500	PUSH SWITCH PHONO MC/MM
pe, tolerance ±20%	L001	TS17634020	POWER TRANSF. [E]	SS 03	SP04010520	PUSH SWITCH CD DIRECT
,	S002	SR00050210	ROTARY SWITCH INPUT SELECTOR	LV01	LY20240230	RELAY
enser, ylar, ±5% 50V	RE37	RM01030310	VARIABLE 10KΩ TREBLE	SV01	SS04060020	SLIDE SWITCH
	RE38	RM01030310	VARIABLE 10KΩ BASS	LW03	LY20240260	RELAY SPEAKER PROTECTOR
	SE51	SP02011420	PUSH SWITCH TONE DEFEAT	SW51	SP02011410	PUSH SWITCH SPEAKER
ease establish the correct	RG51	RM01040890	VARIABLE 100KΩ BALANCE	R719	RA04720750	TRIMMING 4.7 K Ω
dure "ASSIGNMENT OF	RS10	RM05031250	VARIABLE 50KΩ MAIN	R720	RA04720750	TRIMMING 4.7 K Ω
				S901	SP01011100	PUSH SWITCH POWER



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